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11 August 2015

Curtis Hartenstein Southern Ute Tribe Environmental PO Box 737 Ignacio, CO 81137

RE: 8/8/15

Enclosed are the results of analyses for samples received by the laboratory on 08/08/15 16:00. If you need any further assistance, please feel free to contact me.

Sincerely,

DRAFT REPORT DATA SUBJECT TO CHANGE

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at http://greenanalytical.com/certifications/

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water

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Southern Ute Tribe Environmental

PO Box 737 Ignacio CO, 81137 Project: 8/8/15

Project Name / Number: [none]

Project Manager: Curtis Hartenstein

Reported:

08/11/15 16:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NAR6	1508098-01	Water	08/08/15 14:00	08/08/15 16:00
AR 7-2	1508098-02	Water	08/08/15 14:30	08/08/15 16:00
AR 16-0	1508098-03	Water	08/08/15 15:00	08/08/15 16:00
AR 19-3	1508098-04	Water	08/08/15 15:30	08/08/15 16:00
AR 16-0 Dupe	1508098-05	Water	08/08/15 15:00	08/08/15 16:00

DRAFT REPORT

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Southern Ute Tribe Environmental PO Box 737

Ignacio CO, 81137

Project: 8/8/15
Project Name / Number: [none]
Project Manager: Curtis Hartenstein

Reported: 08/11/15 16:21

NAR6

1508098-01 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate*	82.0	10.0		mg/L	1	08/11/15	2320 B		LLG
Alkalinity, Carbonate*	<10.0	10.0		mg/L	1	08/11/15	2320 B		LLG
Total Recoverable Metals by ICP (E200.7)									
Aluminum*	1.57	0.050	0.020	mg/L	1	08/11/15	EPA200.7	_	JGS
Calcium*	55.2	0.020	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Hardness, 200.2 Metals	173	0.462	0.140	mgCaCO3/L	1	08/11/15	2340 B		JGS
Iron*	3.93	0.050	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Magnesium*	8.44	0.100	0.032	mg/L	1	08/11/15	EPA200.7		JGS
Manganese*	0.145	0.005	0.0007	mg/L	1	08/11/15	EPA200.7		JGS
Potassium*	2.67	1.00	0.335	mg/L	1	08/11/15	EPA200.7		JGS
Sodium*	12.2	1.00	0.305	mg/L	1	08/11/15	EPA200.7		JGS
Dissolved Metals by ICP									
Aluminum*	< 0.050	0.050	0.020	mg/L	1	08/11/15	EPA200.7		JGS
Calcium*	53.1	0.020	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Hardness	166	0.462	0.140	mgCaCO3/L	1	08/11/15	2340 B		JGS
Iron*	< 0.050	0.050	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Magnesium*	8.03	0.100	0.032	mg/L	1	08/11/15	EPA200.7		JGS
Manganese*	0.022	0.005	0.0007	mg/L	1	08/11/15	EPA200.7		JGS
Potassium*	2.24	1.00	0.335	mg/L	1	08/11/15	EPA200.7		JGS
Sodium*	12.0	1.00	0.305	mg/L	1	08/11/15	EPA200.7		JGS

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Southern Ute Tribe Environmental PO Box 737

Ignacio CO, 81137

Project: 8/8/15
Project Name / Number: [none]
Project Manager: Curtis Hartenstein

Reported: 08/11/15 16:21

NAR6

1508098-01 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Total Recoverable Metals by	ICPMS (E200.8)								
Antimony*	< 0.0015	0.0015	0.00007	mg/L	1	08/11/15	EPA200.8		JGS
Arsenic*	0.0035	0.0015	0.0002	mg/L	1	08/11/15	EPA200.8		JGS
Barium*	0.0700	0.0005	0.00004	mg/L	1	08/11/15	EPA200.8		JGS
Beryllium*	< 0.0005	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Cadmium*	0.0003	0.0001	0.00001	mg/L	1	08/11/15	EPA200.8		JGS
Chromium*	< 0.0010	0.0010	0.0002	mg/L	1	08/11/15	EPA200.8		JGS
Cobalt*	0.0006	0.0001	0.000006	mg/L	1	08/11/15	EPA200.8		JGS
Copper*	0.0147	0.0001	0.00006	mg/L	1	08/11/15	EPA200.8		JGS
Lead*	0.0532	0.0005	0.00004	mg/L	1	08/11/15	EPA200.8		JGS
Molybdenum*	0.0017	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Nickel*	0.0022	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Selenium*	0.0011	0.0010	0.0003	mg/L	1	08/11/15	EPA200.8		JGS
Silver*	0.0004	0.0001	0.00003	mg/L	1	08/11/15	EPA200.8		JGS
Thallium*	0.0002	0.0001	0.00001	mg/L	1	08/11/15	EPA200.8		JGS
Zinc*	0.0825	0.0010	0.0004	mg/L	1	08/11/15	EPA200.8		JGS
Dissolved Metals by ICPMS									
Antimony*	< 0.0015	0.0015	0.00007	mg/L	1	08/10/15	EPA200.8		JGS
Arsenic*	< 0.0005	0.0005	0.0002	mg/L	1	08/10/15	EPA200.8		JGS
Barium*	0.0512	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Beryllium*	< 0.0005	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Cadmium*	< 0.0001	0.0001	0.00001	mg/L	1	08/10/15	EPA200.8		JGS
Chromium*	0.0025	0.0010	0.0002	mg/L	1	08/10/15	EPA200.8		JGS
Cobalt*	0.0001	0.0001	0.000006	mg/L	1	08/10/15	EPA200.8		JGS
Copper*	0.0032	0.0001	0.00006	mg/L	1	08/10/15	EPA200.8		JGS
Lead*	< 0.0005	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Molybdenum*	0.0011	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Nickel*	0.0019	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Selenium*	< 0.0010	0.0010	0.0003	mg/L	1	08/10/15	EPA200.8		JGS
Silver*	< 0.0001	0.0001	0.00003	mg/L	1	08/10/15	EPA200.8		JGS
Thallium*	0.0002	0.0001	0.00001	mg/L	1	08/10/15	EPA200.8		JGS
Vanadium*	0.0007	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Zinc*	0.0144	0.0100	0.0004	mg/L	1	08/10/15	EPA200.8		JGS
	5.5111	0.0100	0,000,	-					

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Southern Ute Tribe Environmental PO Box 737

Ignacio CO, 81137

Project: 8/8/15
Project Name / Number: [none]
Project Manager: Curtis Hartenstein

Reported:

08/11/15 16:21

NAR6

1508098-01 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Total Mercury by CVAA									
Mercury*	< 0.0002	0.0002	0.00002	mg/L	1	08/10/15	245.1		JGS

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Ignacio CO, 81137

Project: 8/8/15
Project Name / Number: [none]
Project Manager: Curtis Hartenstein

Reported: 08/11/15 16:21

AR 7-2

1508098-02 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate*	75.0	10.0		mg/L	1	08/11/15	2320 B		LLG
Alkalinity, Carbonate*	<10.0	10.0		mg/L	1	08/11/15	2320 B		LLG
Total Recoverable Metals by ICP (E200.7)									
Aluminum*	0.949	0.050	0.020	mg/L	1	08/11/15	EPA200.7		JGS
Calcium*	56.2	0.020	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Hardness, 200.2 Metals	175	0.462	0.140	mgCaCO3/L	1	08/11/15	2340 B		JGS
Iron*	3.29	0.050	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Magnesium*	8.37	0.100	0.032	mg/L	1	08/11/15	EPA200.7		JGS
Manganese*	0.129	0.005	0.0007	mg/L	1	08/11/15	EPA200.7		JGS
Potassium*	2.56	1.00	0.335	mg/L	1	08/11/15	EPA200.7		JGS
Sodium*	11.4	1.00	0.305	mg/L	1	08/11/15	EPA200.7		JGS
Dissolved Metals by ICP									
Aluminum*	< 0.050	0.050	0.020	mg/L	1	08/11/15	EPA200.7		JGS
Calcium*	54.9	0.020	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Hardness	171	0.462	0.140	mgCaCO3/L	1	08/11/15	2340 B		JGS
Iron*	< 0.050	0.050	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Magnesium*	8.16	0.100	0.032	mg/L	1	08/11/15	EPA200.7		JGS
Manganese*	0.025	0.005	0.0007	mg/L	1	08/11/15	EPA200.7		JGS
Potassium*	2.33	1.00	0.335	mg/L	1	08/11/15	EPA200.7		JGS
Sodium*	11.4	1.00	0.305	mg/L	1	08/11/15	EPA200.7		JGS

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Ignacio CO, 81137

Project: 8/8/15
Project Name / Number: [none]
Project Manager: Curtis Hartenstein

Reported: 08/11/15 16:21

AR 7-2

1508098-02 (Water)

Barium* 0.0531 0.0005 0.00004 mg/L 1 08/11/15 EPA200.8 JGS Beryllim* <0.0005				`						
Antimony* <0,0015	Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Arsenic*	Total Recoverable Metals by 1	ICPMS (E200.8)								
Barium* 0.631 0.005 0.0004 mg/L 1 08/11/15 EPA200.8 JGS Beryllim* <0.0005 0.0005 0.00062 mg/L 1 08/11/15 EPA200.8 JGS Cadmium* 0.0003 0.0001 0.00001 mg/L 1 08/11/15 EPA200.8 JGS Chomium* 0.0010 0.0001 0.00006 mg/L 1 08/11/15 EPA200.8 JGS Cobalt** 0.0013 0.0001 0.00006 mg/L 1 08/11/15 EPA200.8 JGS Copper* 0.0135 0.0001 0.00004 mg/L 1 08/11/15 EPA200.8 JGS Molybdenum* 0.0016 0.0005 0.00002 mg/L 1 08/11/15 EPA200.8 JGS Nickel* 0.0021 0.0001 0.0002 mg/L 1 08/11/15 EPA200.8 JGS Silver** 0.0013 0.0010 0.00003 mg/L 1 08/11/15 EP	Antimony*	< 0.0015	0.0015	0.00007	mg/L	1	08/11/15	EPA200.8		JGS
Beryllim*	Arsenic*	0.0032	0.0015	0.0002	mg/L	1	08/11/15	EPA200.8		JGS
Cadmium* 0.0003 0.0001 0.00001 mg/L 1 08/11/15 EPA200.8 JGS Chromium* < 0.0010 0.0010 0.00005 0.0001 0.00006 mg/L 1 08/11/15 EPA200.8 JGS Cobalt* 0.0005 0.0001 0.00006 mg/L 1 08/11/15 EPA200.8 JGS Copper* 0.0135 0.0001 0.00006 mg/L 1 08/11/15 EPA200.8 JGS Lead* 0.0467 0.0005 0.00002 mg/L 1 08/11/15 EPA200.8 JGS Molybdenum* 0.0016 0.0005 0.00002 mg/L 1 08/11/15 EPA200.8 JGS Sikee* 0.0021 0.0001 0.0003 mg/L 1 08/11/15 EPA200.8 JGS Silvee* 0.0003 0.0011 0.00001 mg/L 1 08/11/15 EPA200.8 JGS Silvee* 0.0001 0.0001 0.0001 mg/L 1	Barium*	0.0531	0.0005	0.00004	mg/L	1	08/11/15	EPA200.8		JGS
Chromium* <0,0010 0,0010 0,0002 mg/L 1 08/11/15 EPA200.8 JGS Cobalt* 0,0005 0,0001 0,00006 mg/L 1 08/11/15 EPA200.8 JGS Copper* 0,0135 0,0001 0,00006 mg/L 1 08/11/15 EPA200.8 JGS Lead* 0,0457 0,0005 0,00002 mg/L 1 08/11/15 EPA200.8 JGS Nickel* 0,0016 0,0005 0,00002 mg/L 1 08/11/15 EPA200.8 JGS Silver* 0,0010 0,0010 0,0003 mg/L 1 08/11/15 EPA200.8 JGS Silver* 0,0001 0,0001 0,0003 mg/L 1 08/11/15 EPA200.8 JGS Zinc* 0,0811 0,001 0,0001 mg/L 1 08/11/15 EPA200.8 JGS Zinc* 0,001 0,0001 0,0001 mg/L 1 08/11/15 EPA200.8	Beryllium*	< 0.0005	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Cobalt* 0.0005 0.001 0.00006 mg/L 1 08/11/15 EPA200.8 JGS Copper* 0.0135 0.0001 0.00066 mg/L 1 08/11/15 EPA200.8 JGS Lead* 0.0457 0.0005 0.00002 mg/L 1 08/11/15 EPA200.8 JGS Molybdenum* 0.0016 0.0005 0.00002 mg/L 1 08/11/15 EPA200.8 JGS Nickel* 0.0021 0.0005 0.00002 mg/L 1 08/11/15 EPA200.8 JGS Selenium* 0.0001 0.0001 0.0003 mg/L 1 08/11/15 EPA200.8 JGS Silver* 0.0003 0.0001 0.00003 mg/L 1 08/11/15 EPA200.8 JGS Zinc 0.0001 0.0001 0.00001 mg/L 1 08/11/15 EPA200.8 JGS Zinc* 0.0001 0.0001 0.00001 mg/L 1 08/11/15 EPA200.8 <td>Cadmium*</td> <td>0.0003</td> <td>0.0001</td> <td>0.00001</td> <td>mg/L</td> <td>1</td> <td>08/11/15</td> <td>EPA200.8</td> <td></td> <td>JGS</td>	Cadmium*	0.0003	0.0001	0.00001	mg/L	1	08/11/15	EPA200.8		JGS
Copper* 0.0135 0.0001 0.00066 mg/L 1 08/11/15 EPA200.8 JGS Lead* 0.0457 0.0005 0.00004 mg/L 1 08/11/15 EPA200.8 JGS Molybdenum* 0.0016 0.0005 0.00002 mg/L 1 08/11/15 EPA200.8 JGS Nickel* 0.0011 0.0001 0.00003 mg/L 1 08/11/15 EPA200.8 JGS Selenium* 0.0010 0.0010 0.0003 mg/L 1 08/11/15 EPA200.8 JGS Silver* 0.0003 0.001 0.00001 mg/L 1 08/11/15 EPA200.8 JGS Silver* 0.0001 0.0001 0.00001 mg/L 1 08/11/15 EPA200.8 JGS Zinc* 0.0001 0.0001 0.00001 mg/L 1 08/11/15 EPA200.8 JGS Arsnec* 0.0015 0.00015 0.00007 mg/L 1 08/10/15 EPA200.8	Chromium*	< 0.0010	0.0010	0.0002	mg/L	1	08/11/15	EPA200.8		JGS
	Cobalt*	0.0005	0.0001	0.000006	mg/L	1	08/11/15	EPA200.8		JGS
Molybdenum* 0.0016 0.0005 0.00002 mg/L 1 08/11/15 EPA200.8 JGS Nickel* 0.0021 0.0005 0.00002 mg/L 1 08/11/15 EPA200.8 JGS Selenium* < 0.0010 0.0010 0.0003 mg/L 1 08/11/15 EPA200.8 JGS Silver* 0.0001 0.0001 0.0001 0.0001 mg/L 1 08/11/15 EPA200.8 JGS Thallium* 0.0001 0.0001 0.0001 mg/L 1 08/11/15 EPA200.8 JGS Zine* 0.0811 0.0010 0.0004 mg/L 1 08/11/15 EPA200.8 JGS Zine* 0.0811 0.0010 0.0004 mg/L 1 08/11/15 EPA200.8 JGS Zine* 0.0015 0.0015 0.00007 mg/L 1 08/10/15 EPA200.8 JGS Arsenic* < 0.0015 0.0005 0.00002 mg/L 1 08/10/15<	Copper*	0.0135	0.0001	0.00006	mg/L	1	08/11/15	EPA200.8		JGS
Nickel* 0.0021 0.0005 0.00002 mg/L 1 08/11/15 EPA200.8 JGS	Lead*	0.0457	0.0005	0.00004	mg/L	1	08/11/15	EPA200.8		JGS
Selenium* <0.0010 0.0010 0.0003 mg/L 1 08/11/15 EPA200.8 JGS Silver* 0.0003 0.0001 0.00003 mg/L 1 08/11/15 EPA200.8 JGS Thallium* 0.0001 0.0001 0.00001 mg/L 1 08/11/15 EPA200.8 JGS Zinc* 0.0811 0.0010 0.0004 mg/L 1 08/11/15 EPA200.8 JGS Dissolved Metals by ICPMS USS USS </td <td>Molybdenum*</td> <td>0.0016</td> <td>0.0005</td> <td>0.00002</td> <td>mg/L</td> <td>1</td> <td>08/11/15</td> <td>EPA200.8</td> <td></td> <td>JGS</td>	Molybdenum*	0.0016	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Silver	Nickel*	0.0021	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Thallium* 0.0001 0.0001 0.00001 mg/L 1 08/11/15 EPA200.8 JGS	Selenium*	< 0.0010	0.0010	0.0003	mg/L	1	08/11/15	EPA200.8		JGS
Zine* 0.0811 0.0010 0.0004 mg/L 1 08/11/15 EPA200.8 JGS Dissolved Metals by ICPMS JGS JGS JGS JGS JGS JGS Antimony* <0.0015 0.0015 0.0002 mg/L 1 08/10/15 EPA200.8 JGS Arsenic* <0.0005 0.0005 0.00004 mg/L 1 08/10/15 EPA200.8 JGS Barium* 0.0465 0.0005 0.00002 mg/L 1 08/10/15 EPA200.8 JGS Cadmium* <0.0001 0.0001 0.00002 mg/L 1 08/10/15 EPA200.8 JGS Chromium* <0.0001 0.0001 0.00001 mg/L 1 08/10/15 EPA200.8 JGS Cobalt* 0.0010 0.0001 0.00006 mg/L 1 08/10/15 EPA200.8 JGS Copper* 0.0026 0.0001 0.00006 mg/L 1 08/10/15 EPA200.8 JGS	Silver*	0.0003	0.0001	0.00003	mg/L	1	08/11/15	EPA200.8		JGS
Dissolved Metals by ICPMS	Thallium*	0.0001	0.0001	0.00001	mg/L	1	08/11/15	EPA200.8		JGS
Antimony* <0.0015 0.0015 0.0007 mg/L 1 08/10/15 EPA200.8 JGS Arsenic* <0.0005 0.0005 0.0002 mg/L 1 08/10/15 EPA200.8 JGS Barium* 0.0465 0.0005 0.00004 mg/L 1 08/10/15 EPA200.8 JGS Beryllium* <0.0001 0.0005 0.00002 mg/L 1 08/10/15 EPA200.8 JGS Cadmium* <0.0001 0.0001 0.00001 mg/L 1 08/10/15 EPA200.8 JGS Chromium* <0.0036 0.0011 0.00001 mg/L 1 08/10/15 EPA200.8 JGS Cobalt* <0.0001 0.0001 0.00006 mg/L 1 08/10/15 EPA200.8 JGS Lead* <0.0013 0.0005 0.00004 mg/L 1 08/10/15 EPA200.8 JGS Molybdenum* <0.0011 0.0005 0.00002 mg/L 1 08/10/15	Zinc*	0.0811	0.0010	0.0004	mg/L	1	08/11/15	EPA200.8		JGS
Arsenic* <0.0005 0.0005 0.0002 mg/L 1 08/10/15 EPA200.8 JGS Barium* 0.0465 0.0005 0.00002 mg/L 1 08/10/15 EPA200.8 JGS Beryllium* <0.0005 0.0005 0.00002 mg/L 1 08/10/15 EPA200.8 JGS Cadmium* <0.0001 0.0001 0.00001 mg/L 1 08/10/15 EPA200.8 JGS Chromium* 0.0036 0.0010 0.0002 mg/L 1 08/10/15 EPA200.8 JGS Cobalt* 0.0001 0.0001 0.00006 mg/L 1 08/10/15 EPA200.8 JGS Coper* 0.0026 0.0011 0.00006 mg/L 1 08/10/15 EPA200.8 JGS Molybdenum* 0.0011 0.0005 0.00002 mg/L 1 08/10/15 EPA200.8 JGS Silver* 0.0017 0.0005 0.00002 mg/L 1 08/10/15 <t< td=""><td>Dissolved Metals by ICPMS</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Dissolved Metals by ICPMS									
Barium* 0.0465 0.0005 0.00004 mg/L 1 08/10/15 EPA200.8 JGS Beryllium* <0.0005 0.0005 0.00002 mg/L 1 08/10/15 EPA200.8 JGS Cadmium* <0.0001 0.0001 0.00001 mg/L 1 08/10/15 EPA200.8 JGS Chromium* 0.0036 0.0010 0.0002 mg/L 1 08/10/15 EPA200.8 JGS Cobalt* 0.0001 0.0001 0.00006 mg/L 1 08/10/15 EPA200.8 JGS Copper* 0.0026 0.0001 0.00006 mg/L 1 08/10/15 EPA200.8 JGS Molybdenum* 0.0011 0.0005 0.00002 mg/L 1 08/10/15 EPA200.8 JGS Nickel* 0.0017 0.0005 0.00002 mg/L 1 08/10/15 EPA200.8 JGS Silver* <0.0001 0.0001 0.00003 mg/L 1 08/10/15 <	Antimony*	< 0.0015	0.0015	0.00007	mg/L	1	08/10/15	EPA200.8		JGS
Beryllium* <0.0005 0.0005 0.00002 mg/L 1 08/10/15 EPA200.8 JGS Cadmium* <0.0001 0.0001 0.00001 mg/L 1 08/10/15 EPA200.8 JGS Chromium* 0.0036 0.0010 0.00002 mg/L 1 08/10/15 EPA200.8 JGS Cobalt* 0.0001 0.0001 0.00006 mg/L 1 08/10/15 EPA200.8 JGS Copper* 0.0026 0.0011 0.00005 0.00004 mg/L 1 08/10/15 EPA200.8 JGS Molybdenum* 0.0011 0.0005 0.00002 mg/L 1 08/10/15 EPA200.8 JGS Nickel* 0.0017 0.0005 0.00002 mg/L 1 08/10/15 EPA200.8 JGS Selenium* 0.0010 0.0010 0.0003 mg/L 1 08/10/15 EPA200.8 JGS Thallium* 0.0002 0.0001 0.00001 0.00004 mg/L	Arsenic*	< 0.0005	0.0005	0.0002	mg/L	1	08/10/15	EPA200.8		JGS
Cadmium* <0.0001 0.0001 0.00001 mg/L 1 08/10/15 EPA200.8 JGS Chromium* 0.0036 0.0010 0.0002 mg/L 1 08/10/15 EPA200.8 JGS Cobalt* 0.0001 0.0001 0.00006 mg/L 1 08/10/15 EPA200.8 JGS Copper* 0.0026 0.0011 0.0005 0.0004 mg/L 1 08/10/15 EPA200.8 JGS Lead* 0.0011 0.0005 0.00002 mg/L 1 08/10/15 EPA200.8 JGS Molybdenum* 0.0011 0.0005 0.00002 mg/L 1 08/10/15 EPA200.8 JGS Nickel* 0.0017 0.0005 0.00002 mg/L 1 08/10/15 EPA200.8 JGS Silver* <0.0010 0.0001 0.00003 mg/L 1 08/10/15 EPA200.8 JGS Vanadium* 0.0010 0.0005 0.00004 mg/L 1 08/10	Barium*	0.0465	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Chromium* 0.0036 0.0010 0.0002 mg/L 1 08/10/15 EPA200.8 JGS Cobalt* 0.0001 0.0001 0.00006 mg/L 1 08/10/15 EPA200.8 JGS Copper* 0.0026 0.0001 0.00006 mg/L 1 08/10/15 EPA200.8 JGS Lead* 0.0013 0.0005 0.00004 mg/L 1 08/10/15 EPA200.8 JGS Molybdenum* 0.0011 0.0005 0.00002 mg/L 1 08/10/15 EPA200.8 JGS Nickel* 0.0017 0.0005 0.00002 mg/L 1 08/10/15 EPA200.8 JGS Selenium* <0.0010 0.0011 0.0003 mg/L 1 08/10/15 EPA200.8 JGS Thallium* 0.0002 0.0001 0.0001 mg/L 1 08/10/15 EPA200.8 JGS Vanadium* 0.0010 0.0005 0.00001 mg/L 1 08/10/15 EP	Beryllium*	< 0.0005	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Cobalt* 0.0001 0.0001 0.00006 mg/L 1 08/10/15 EPA200.8 JGS Copper* 0.0026 0.0001 0.00006 mg/L 1 08/10/15 EPA200.8 JGS Lead* 0.0013 0.0005 0.00004 mg/L 1 08/10/15 EPA200.8 JGS Molybdenum* 0.0011 0.0005 0.00002 mg/L 1 08/10/15 EPA200.8 JGS Nickel* 0.0017 0.0005 0.00002 mg/L 1 08/10/15 EPA200.8 JGS Selenium* <0.0010 0.0010 0.0003 mg/L 1 08/10/15 EPA200.8 JGS Thallium* 0.0002 0.0001 0.00001 mg/L 1 08/10/15 EPA200.8 JGS Vanadium* 0.0010 0.0005 0.00004 mg/L 1 08/10/15 EPA200.8 JGS	Cadmium*	< 0.0001	0.0001	0.00001	mg/L	1	08/10/15	EPA200.8		JGS
Copper* 0.0026 0.0001 0.00006 mg/L 1 08/10/15 EPA200.8 JGS Lead* 0.0013 0.0005 0.00004 mg/L 1 08/10/15 EPA200.8 JGS Molybdenum* 0.0011 0.0005 0.00002 mg/L 1 08/10/15 EPA200.8 JGS Nickel* 0.0017 0.0005 0.00002 mg/L 1 08/10/15 EPA200.8 JGS Selenium* <0.0010 0.0010 0.0003 mg/L 1 08/10/15 EPA200.8 JGS Thallium* 0.0002 0.0001 0.00001 mg/L 1 08/10/15 EPA200.8 JGS Vanadium* 0.0010 0.0005 0.00004 mg/L 1 08/10/15 EPA200.8 JGS	Chromium*	0.0036	0.0010	0.0002	mg/L	1	08/10/15	EPA200.8		JGS
Lead* 0.0013 0.0005 0.00004 mg/L 1 08/10/15 EPA200.8 JGS Molybdenum* 0.0011 0.0005 0.00002 mg/L 1 08/10/15 EPA200.8 JGS Nickel* 0.0017 0.0005 0.00002 mg/L 1 08/10/15 EPA200.8 JGS Selenium* <0.0010 0.0010 0.0003 mg/L 1 08/10/15 EPA200.8 JGS Silver* <0.0001 0.0001 0.00003 mg/L 1 08/10/15 EPA200.8 JGS Thallium* 0.0002 0.0001 0.00001 mg/L 1 08/10/15 EPA200.8 JGS Vanadium* 0.0010 0.0005 0.00004 mg/L 1 08/10/15 EPA200.8 JGS	Cobalt*	0.0001	0.0001	0.000006	mg/L	1	08/10/15	EPA200.8		JGS
Molybdenum* 0.0011 0.0005 0.00002 mg/L 1 08/10/15 EPA200.8 JGS Nickel* 0.0017 0.0005 0.00002 mg/L 1 08/10/15 EPA200.8 JGS Selenium* <0.0010 0.0010 0.0003 mg/L 1 08/10/15 EPA200.8 JGS Silver* <0.0001 0.0001 0.00003 mg/L 1 08/10/15 EPA200.8 JGS Thallium* 0.0002 0.0001 0.0001 mg/L 1 08/10/15 EPA200.8 JGS Vanadium* 0.0010 0.0005 0.00004 mg/L 1 08/10/15 EPA200.8 JGS	Copper*	0.0026	0.0001	0.00006	mg/L	1	08/10/15	EPA200.8		JGS
Nickel* 0.0017 0.0005 0.00002 mg/L 1 08/10/15 EPA200.8 JGS Selenium* <0.0010	Lead*	0.0013	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Selenium* <0.0010 0.0010 0.0003 mg/L 1 08/10/15 EPA200.8 JGS Silver* <0.0001 0.0001 0.0003 mg/L 1 08/10/15 EPA200.8 JGS Thallium* 0.0002 0.0001 0.0001 mg/L 1 08/10/15 EPA200.8 JGS Vanadium* 0.0010 0.0005 0.00004 mg/L 1 08/10/15 EPA200.8 JGS	Molybdenum*	0.0011	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Silver* <0.0001 0.0001 0.00001 mg/L 1 08/10/15 EPA200.8 JGS Thallium* 0.0002 0.0001 0.00001 mg/L 1 08/10/15 EPA200.8 JGS Vanadium* 0.0010 0.0005 0.00004 mg/L 1 08/10/15 EPA200.8 JGS	Nickel*	0.0017	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Thallium* 0.0002 0.0001 0.00001 mg/L 1 08/10/15 EPA200.8 JGS Vanadium* 0.0010 0.0005 0.0004 mg/L 1 08/10/15 EPA200.8 JGS	Selenium*	< 0.0010	0.0010	0.0003	mg/L	1	08/10/15	EPA200.8		JGS
Vanadium* 0.0010 0.0005 0.00004 mg/L 1 08/10/15 EPA200.8 JGS	Silver*	< 0.0001	0.0001	0.00003	mg/L	1	08/10/15	EPA200.8		JGS
Vanadium* 0.0010 0.0005 0.00004 mg/L 1 08/10/15 EPA200.8 JGS	Thallium*	0.0002	0.0001	0.00001	mg/L	1	08/10/15	EPA200.8		JGS
					_	1	08/10/15	EPA200.8		JGS
	Zinc*	0.0225	0.0100	0.0004	mg/L	1	08/10/15	EPA200.8		JGS

DRAFT REPORT

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Southern Ute Tribe Environmental PO Box 737

Ignacio CO, 81137

Project: 8/8/15
Project Name / Number: [none]

Reported:

Project Manager: Curtis Hartenstein 08/11/15 16:21

AR 7-2

1508098-02 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Total Mercury by CVAA									
Mercury*	< 0.0002	0.0002	0.00002	mg/L	1	08/10/15	245.1		JGS

DRAFT REPORT

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Ignacio CO, 81137

Project: 8/8/15
Project Name / Number: [none]
Project Manager: Curtis Hartenstein

Reported: 08/11/15 16:21

AR 16-0

1508098-03 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate*	65.0	10.0		mg/L	1	08/11/15	2320 B		LLG
Alkalinity, Carbonate*	<10.0	10.0		mg/L	1	08/11/15	2320 B		LLG
Total Recoverable Metals by ICP (E200.7)									
Aluminum*	0.708	0.050	0.020	mg/L	1	08/11/15	EPA200.7		JGS
Calcium*	54.0	0.020	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Hardness, 200.2 Metals	168	0.462	0.140	mgCaCO3/L	1	08/11/15	2340 B		JGS
Iron*	2.52	0.050	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Magnesium*	7.96	0.100	0.032	mg/L	1	08/11/15	EPA200.7		JGS
Manganese*	0.131	0.005	0.0007	mg/L	1	08/11/15	EPA200.7		JGS
Potassium*	2.43	1.00	0.335	mg/L	1	08/11/15	EPA200.7		JGS
Sodium*	10.8	1.00	0.305	mg/L	1	08/11/15	EPA200.7		JGS
Dissolved Metals by ICP									
Aluminum*	0.060	0.050	0.020	mg/L	1	08/11/15	EPA200.7		JGS
Calcium*	54.0	0.020	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Hardness	167	0.462	0.140	mgCaCO3/L	1	08/11/15	2340 B		JGS
Iron*	< 0.050	0.050	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Magnesium*	7.91	0.100	0.032	mg/L	1	08/11/15	EPA200.7		JGS
Manganese*	0.048	0.005	0.0007	mg/L	1	08/11/15	EPA200.7		JGS
Potassium*	2.20	1.00	0.335	mg/L	1	08/11/15	EPA200.7		JGS
Sodium*	11.0	1.00	0.305	mg/L	1	08/11/15	EPA200.7		JGS

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Southern Ute Tribe Environmental PO Box 737

Ignacio CO, 81137

Project: 8/8/15
Project Name / Number: [none]
Project Manager: Curtis Hartenstein

Reported: 08/11/15 16:21

AR 16-0

1508098-03 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Total Recoverable Metals by ICPMS (E	200.8)								
Antimony*	< 0.0015	0.0015	0.00007	mg/L	1	08/11/15	EPA200.8		JGS
Arsenic*	0.0027	0.0015	0.0002	mg/L	1	08/11/15	EPA200.8		JGS
Barium*	0.0483	0.0005	0.00004	mg/L	1	08/11/15	EPA200.8		JGS
Beryllium*	< 0.0005	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Cadmium*	0.0003	0.0001	0.00001	mg/L	1	08/11/15	EPA200.8		JGS
Chromium*	< 0.0010	0.0010	0.0002	mg/L	1	08/11/15	EPA200.8		JGS
Cobalt*	0.0005	0.0001	0.000006	mg/L	1	08/11/15	EPA200.8		JGS
Copper*	0.0109	0.0001	0.00006	mg/L	1	08/11/15	EPA200.8		JGS
Lead*	0.0345	0.0005	0.00004	mg/L	1	08/11/15	EPA200.8		JGS
Molybdenum*	0.0013	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Nickel*	0.0020	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Selenium*	< 0.0010	0.0010	0.0003	mg/L	1	08/11/15	EPA200.8		JGS
Silver*	0.0002	0.0001	0.00003	mg/L	1	08/11/15	EPA200.8		JGS
Thallium*	< 0.0001	0.0001	0.00001	mg/L	1	08/11/15	EPA200.8		JGS
Zinc*	0.0691	0.0010	0.0004	mg/L	1	08/11/15	EPA200.8		JGS
Dissolved Metals by ICPMS									
Antimony*	0.0010	0.0005	0.00007	mg/L	1	08/10/15	EPA200.8		JGS
Arsenic*	0.0007	0.0005	0.0002	mg/L	1	08/10/15	EPA200.8		JGS
Barium*	0.0432	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Beryllium*	< 0.0005	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Cadmium*	< 0.0001	0.0001	0.00001	mg/L	1	08/10/15	EPA200.8		JGS
Chromium*	0.0030	0.0010	0.0002	mg/L	1	08/10/15	EPA200.8		JGS
Cobalt*	0.0002	0.0001	0.000006	mg/L	1	08/10/15	EPA200.8		JGS
Copper*	0.0029	0.0001	0.00006	mg/L	1	08/10/15	EPA200.8		JGS
Lead*	< 0.0005	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Molybdenum*	0.0011	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Nickel*	0.0018	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Selenium*	< 0.0010	0.0010	0.0003	mg/L	1	08/10/15	EPA200.8		JGS
Silver*	< 0.0001	0.0001	0.00003	mg/L	1	08/10/15	EPA200.8		JGS
Thallium*	0.0001	0.0001	0.00001	mg/L	1	08/10/15	EPA200.8		JGS
Vanadium*	0.0009	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Zinc*	0.0139	0.0010	0.0004	mg/L	1	08/10/15	EPA200.8		JGS

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Southern Ute Tribe Environmental PO Box 737

PO Box 737 Project Name / Number: [none]
Ignacio CO, 81137 Project Manager: Curtis Hartenstein

Reported:

08/11/15 16:21

AR 16-0

Project: 8/8/15

1508098-03 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Total Mercury by CVAA									
Mercury*	< 0.0002	0.0002	0.00002	mg/L	1	08/10/15	245.1		JGS

DRAFT REPORT

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Southern Ute Tribe Environmental PO Box 737

Ignacio CO, 81137

Project: 8/8/15
Project Name / Number: [none]
Project Manager: Curtis Hartenstein

Reported: 08/11/15 16:21

AR 19-3

1508098-04 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate*	70.0	10.0		mg/L	1	08/11/15	2320 B		LLG
Alkalinity, Carbonate*	<10.0	10.0		mg/L	1	08/11/15	2320 B		LLG
Total Recoverable Metals by ICP (E200.7)									
Aluminum*	0.714	0.050	0.020	mg/L	1	08/11/15	EPA200.7		JGS
Calcium*	54.5	0.020	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Hardness, 200.2 Metals	169	0.462	0.140	mgCaCO3/L	1	08/11/15	2340 B		JGS
Iron*	2.70	0.050	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Magnesium*	8.01	0.100	0.032	mg/L	1	08/11/15	EPA200.7		JGS
Manganese*	0.153	0.005	0.0007	mg/L	1	08/11/15	EPA200.7		JGS
Potassium*	2.34	1.00	0.335	mg/L	1	08/11/15	EPA200.7		JGS
Sodium*	10.5	1.00	0.305	mg/L	1	08/11/15	EPA200.7		JGS
Dissolved Metals by ICP									
Aluminum*	0.085	0.050	0.020	mg/L	1	08/11/15	EPA200.7		JGS
Calcium*	54.1	0.020	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Hardness	167	0.462	0.140	mgCaCO3/L	1	08/11/15	2340 B		JGS
Iron*	< 0.050	0.050	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Magnesium*	7.80	0.100	0.032	mg/L	1	08/11/15	EPA200.7		JGS
Manganese*	0.083	0.005	0.0007	mg/L	1	08/11/15	EPA200.7		JGS
Potassium*	2.32	1.00	0.335	mg/L	1	08/11/15	EPA200.7		JGS
Sodium*	10.4	1.00	0.305	mg/L	1	08/11/15	EPA200.7		JGS

DRAFT REPORT

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Southern Ute Tribe Environmental PO Box 737

Ignacio CO, 81137

Project: 8/8/15
Project Name / Number: [none]
Project Manager: Curtis Hartenstein

Reported: 08/11/15 16:21

AR 19-3

1508098-04 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Total Recoverable Metals by	ICPMS (E200.8)								
Antimony*	< 0.0015	0.0015	0.00007	mg/L	1	08/11/15	EPA200.8		JGS
Arsenic*	0.0031	0.0015	0.0002	mg/L	1	08/11/15	EPA200.8		JGS
Barium*	0.0512	0.0005	0.00004	mg/L	1	08/11/15	EPA200.8		JGS
Beryllium*	< 0.0005	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Cadmium*	0.0003	0.0001	0.00001	mg/L	1	08/11/15	EPA200.8		JGS
Chromium*	< 0.0010	0.0010	0.0002	mg/L	1	08/11/15	EPA200.8		JGS
Cobalt*	0.0006	0.0001	0.000006	mg/L	1	08/11/15	EPA200.8		JGS
Copper*	0.0131	0.0001	0.00006	mg/L	1	08/11/15	EPA200.8		JGS
Lead*	0.0377	0.0005	0.00004	mg/L	1	08/11/15	EPA200.8		JGS
Molybdenum*	0.0013	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Nickel*	0.0022	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Selenium*	0.0013	0.0010	0.0003	mg/L	1	08/11/15	EPA200.8		JGS
Silver*	0.0002	0.0001	0.00003	mg/L	1	08/11/15	EPA200.8		JGS
Thallium*	< 0.0001	0.0001	0.00001	mg/L	1	08/11/15	EPA200.8		JGS
Zinc*	0.0845	0.0010	0.0004	mg/L	1	08/11/15	EPA200.8		JGS
Dissolved Metals by ICPMS									
Antimony*	0.0007	0.0005	0.00007	mg/L	1	08/10/15	EPA200.8		JGS
Arsenic*	0.0006	0.0005	0.0002	mg/L	1	08/10/15	EPA200.8		JGS
Barium*	0.0474	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Beryllium*	< 0.0005	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Cadmium*	< 0.0001	0.0001	0.00001	mg/L	1	08/10/15	EPA200.8		JGS
Chromium*	0.0016	0.0010	0.0002	mg/L	1	08/10/15	EPA200.8		JGS
Cobalt*	0.0002	0.0001	0.000006	mg/L	1	08/10/15	EPA200.8		JGS
Copper*	0.0028	0.0001	0.00006	mg/L	1	08/10/15	EPA200.8		JGS
Lead*	< 0.0005	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Molybdenum*	0.0010	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Nickel*	0.0019	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Selenium*	< 0.0010	0.0010	0.0003	mg/L	1	08/10/15	EPA200.8		JGS
Silver*	< 0.0001	0.0001	0.00003	mg/L	1	08/10/15	EPA200.8		JGS
Thallium*	0.0001	0.0001	0.00001	mg/L	1	08/10/15	EPA200.8		JGS
Vanadium*	0.0005	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Zine*	0.0157	0.0010	0.0004	mg/L	1	08/10/15	EPA200.8		JGS
			*****	-					

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Southern Ute Tribe Environmental PO Box 737

Ignacio CO, 81137

Project: 8/8/15
Project Name / Number: [none]

Reported: 08/11/15 16:21

Project Manager: Curtis Hartenstein

AR 19-3

1508098-04 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Total Mercury by CVAA									
Mercury*	< 0.0002	0.0002	0.00002	mg/L	1	08/10/15	245.1		JGS

DRAFT REPORT

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Southern Ute Tribe Environmental PO Box 737

Ignacio CO, 81137

Project: 8/8/15
Project Name / Number: [none]
Project Manager: Curtis Hartenstein

Reported:

08/11/15 16:21

AR 16-0 Dupe

1508098-05 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate*	64.0	10.0		mg/L	1	08/11/15	2320 B		LLG
Alkalinity, Carbonate*	<10.0	10.0		mg/L	1	08/11/15	2320 B		LLG
Total Recoverable Metals by ICP (E200.7)									
Aluminum*	0.654	0.050	0.020	mg/L	1	08/11/15	EPA200.7		JGS
Calcium*	54.0	0.020	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Hardness, 200.2 Metals	168	0.462	0.140	mgCaCO3/L	1	08/11/15	2340 B		JGS
Iron*	2.57	0.050	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Magnesium*	7.99	0.100	0.032	mg/L	1	08/11/15	EPA200.7		JGS
Manganese*	0.135	0.005	0.0007	mg/L	1	08/11/15	EPA200.7		JGS
Potassium*	2.39	1.00	0.335	mg/L	1	08/11/15	EPA200.7		JGS
Sodium*	10.8	1.00	0.305	mg/L	1	08/11/15	EPA200.7		JGS
Dissolved Metals by ICP									
Aluminum*	0.060	0.050	0.020	mg/L	1	08/11/15	EPA200.7		JGS
Calcium*	53.6	0.020	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Hardness	166	0.462	0.140	mgCaCO3/L	1	08/11/15	2340 B		JGS
Iron*	< 0.050	0.050	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Magnesium*	7.88	0.100	0.032	mg/L	1	08/11/15	EPA200.7		JGS
Manganese*	0.050	0.005	0.0007	mg/L	1	08/11/15	EPA200.7		JGS
Potassium*	2.23	1.00	0.335	mg/L	1	08/11/15	EPA200.7		JGS
Sodium*	10.9	1.00	0.305	mg/L	1	08/11/15	EPA200.7		JGS

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Southern Ute Tribe Environmental PO Box 737

Ignacio CO, 81137

Project: 8/8/15
Project Name / Number: [none]
Project Manager: Curtis Hartenstein

Reported: 08/11/15 16:21

AR 16-0 Dupe

1508098-05 (Water)

			<u>`</u>						
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Total Recoverable Metals by	ICPMS (E200.8)								
Antimony*	< 0.0015	0.0015	0.00007	mg/L	1	08/11/15	EPA200.8		JGS
Arsenic*	0.0026	0.0015	0.0002	mg/L	1	08/11/15	EPA200.8		JGS
Barium*	0.0541	0.0005	0.00004	mg/L	1	08/11/15	EPA200.8		JGS
Beryllium*	< 0.0005	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Cadmium*	0.0003	0.0001	0.00001	mg/L	1	08/11/15	EPA200.8		JGS
Chromium*	< 0.0010	0.0010	0.0002	mg/L	1	08/11/15	EPA200.8		JGS
Cobalt*	0.0005	0.0001	0.000006	mg/L	1	08/11/15	EPA200.8		JGS
Copper*	0.0115	0.0001	0.00006	mg/L	1	08/11/15	EPA200.8		JGS
Lead*	0.0353	0.0005	0.00004	mg/L	1	08/11/15	EPA200.8		JGS
Molybdenum*	0.0013	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Nickel*	0.0021	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Selenium*	< 0.0010	0.0010	0.0003	mg/L	1	08/11/15	EPA200.8		JGS
Silver*	0.0002	0.0001	0.00003	mg/L	1	08/11/15	EPA200.8		JGS
Thallium*	< 0.0001	0.0001	0.00001	mg/L	1	08/11/15	EPA200.8		JGS
Zinc*	0.0711	0.0010	0.0004	mg/L	1	08/11/15	EPA200.8		JGS
Dissolved Metals by ICPMS									
Antimony*	0.0005	0.0005	0.00007	mg/L	1	08/10/15	EPA200.8		JGS
Arsenic*	0.0007	0.0005	0.0002	mg/L	1	08/10/15	EPA200.8		JGS
Barium*	0.0493	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Beryllium*	< 0.0005	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Cadmium*	< 0.0001	0.0001	0.00001	mg/L	1	08/10/15	EPA200.8		JGS
Chromium*	0.0028	0.0010	0.0002	mg/L	1	08/10/15	EPA200.8		JGS
Cobalt*	0.0003	0.0001	0.000006	mg/L	1	08/10/15	EPA200.8		JGS
Copper*	0.0029	0.0001	0.00006	mg/L	1	08/10/15	EPA200.8		JGS
Lead*	< 0.0005	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Molybdenum*	0.0010	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Nickel*	0.0023	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Selenium*	< 0.0010	0.0010	0.0003	mg/L	1	08/10/15	EPA200.8		JGS
Silver*	< 0.0001	0.0001	0.00003	mg/L	1	08/10/15	EPA200.8		JGS
Thallium*	0.0001	0.0001	0.00001	mg/L	1	08/10/15	EPA200.8		JGS
Vanadium*	0.0008	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Zinc*	0.0280	0.0010	0.0004	mg/L	1	08/10/15	EPA200.8		JGS
				_					

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Southern Ute Tribe Environmental PO Box 737

Ignacio CO, 81137

Project: 8/8/15

Project Name / Number: [none]

Project Manager: Curtis Hartenstein

Reported:

08/11/15 16:21

AR 16-0 Dupe

1508098-05 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Total Mercury by CVAA									
Mercury*	< 0.0002	0.0002	0.00002	mg/L	1	08/10/15	245.1		JGS

DRAFT REPORT

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Southern Ute Tribe Environmental PO Box 737

Ignacio CO, 81137

Project: 8/8/15
Project Name / Number: [none]
Project Manager: Curtis Hartenstein

Reported:

08/11/15 16:21

Total Recoverable Metals by ICP (E200.7) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B508089 - EPA 200.2	Acount	Ziimt								- 10100
Blank (B508089-BLK1)				Prepared &	Analyzed:	08/11/15				
Aluminum	ND	0.050	mg/L							
Calcium	0.023	0.020	mg/L							1
Iron	ND	0.050	mg/L							
Magnesium	ND	0.100	mg/L							
Manganese	ND	0.005	mg/L							
Potassium	ND	1.00	mg/L							
Sodium	ND	1.00	mg/L							
LCS (B508089-BS1)				Prepared &	Analyzed:	08/11/15				
Aluminum	4.07	0.050	mg/L	4.00		102	85-115			
Calcium	4.11	0.020	mg/L	4.00		103	85-115			
Iron	3.93	0.050	mg/L	4.00		98.3	85-115			
Magnesium	21.0	0.100	mg/L	20.0		105	85-115			
Manganese	2.07	0.005	mg/L	2.00		104	85-115			
Potassium	8.34	1.00	mg/L	8.00		104	85-115			
Sodium	6.52	1.00	mg/L	6.48		101	85-115			
LCS Dup (B508089-BSD1)				Prepared &	Analyzed:	08/11/15				
Aluminum	4.00	0.050	mg/L	4.00		100	85-115	1.64	20	
Calcium	4.02	0.020	mg/L	4.00		101	85-115	2.22	20	
Iron	3.91	0.050	mg/L	4.00		97.7	85-115	0.694	20	
Magnesium	20.5	0.100	mg/L	20.0		103	85-115	2.44	20	
Manganese	2.03	0.005	mg/L	2.00		102	85-115	1.95	20	
Potassium	8.08	1.00	mg/L	8.00		101	85-115	3.06	20	
Sodium	6.39	1.00	mg/L	6.48		98.7	85-115	1.89	20	

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Source

Result

Prepared & Analyzed: 08/11/15

99.8

101

96.5

103

101

101

98.0

85-115

85-115

85-115

85-115

85-115

85-115

85-115

1.98

1.92

2.15

2.02

1.61

1.13

1.71

20

20

20

20

20

20

20

5.00

5.00

5.00

25.0

2.50

10.0

8.10

%REC

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%REC

Limits

RPD

Southern Ute Tribe Environmental PO Box 737

Ignacio CO, 81137

Analyte

Project: 8/8/15
Project Name / Number: [none]
Project Manager: Curtis Hartenstein

Reporting

Limit

0.050

0.020

0.050

0.100

0.005

1.00

1.00

mg/L

mg/L

mg/L

mg/L

mg/L

mg/L

mg/L

Result

4.99

5.03

4.83

25.7

2.52

10.1

7.93

Reported:

08/11/15 16:21

RPD

Limit

Notes

Dissolved Metals by ICP - Quality Control

Units

Spike

Level

lank (B508091-BLK1)				Prepared & Analy	yzed: 08/11/15	
luminum	ND	0.050	mg/L			
alcium	ND	0.020	mg/L			
on	ND	0.050	mg/L			
agnesium	ND	0.100	mg/L			
anganese	ND	0.005	mg/L			
otassium	ND	1.00	mg/L			
odium	ND	1.00	mg/L			
CS (B508091-BS1)				Prepared & Anal	yzed: 08/11/15	
ıminum	4.89	0.050	mg/L	5.00	97.8	85-115
					00.0	
lcium	4.94	0.020	mg/L	5.00	98.8	85-115
	4.94 4.72	0.020 0.050	mg/L mg/L	5.00 5.00	98.8 94.5	85-115 85-115
1			_			
nesium	4.72	0.050	mg/L	5.00	94.5	85-115
lcium n gnesium nganese assium	4.72 25.2	0.050 0.100	mg/L mg/L	5.00 25.0	94.5 101	85-115 85-115

DRAFT REPORT

LCS Dup (B508091-BSD1)

Aluminum

Magnesium

Manganese

Potassium

Sodium

Calcium

Iron

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Southern Ute Tribe Environmental

Project: 8/8/15 PO Box 737 Project Name / Number: [none] Ignacio CO, 81137 Project Manager: Curtis Hartenstein

Reported: 08/11/15 16:21

Total Recoverable Metals by ICPMS (E200.8) - Quality Control

		Reporting		Spike	Source	_	%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B508090 - EPA 200.2M										
Blank (B508090-BLK1)				Prepared &	à Analyzed:	08/11/15				
Antimony	0.0009	0.0005	mg/L		·					В3
Arsenic	0.0007	0.0005	mg/L							В3
Barium	ND	0.0005	mg/L							
Beryllium	ND	0.0005	mg/L							
Cadmium	ND	0.0001	mg/L							
Chromium	ND	0.0010	mg/L							
Cobalt	ND	0.0001	mg/L							
Copper	ND	0.0001	mg/L							
Lead	ND	0.0005	mg/L							
Molybdenum	ND	0.0005	mg/L							
Nickel	ND	0.0005	mg/L							
Selenium	ND	0.0010	mg/L							
Silver	ND	0.0001	mg/L							
Thallium	ND	0.0001	mg/L							
Zinc	ND	0.0010	mg/L							
LCS (B508090-BS1)				Prepared &	Analyzed:	08/11/15				
Antimony	0.0574	0.0005	mg/L	0.0500		115	85-115			
Arsenic	0.0536	0.0005	mg/L	0.0500		107	85-115			
Barium	0.0494	0.0005	mg/L	0.0500		98.8	85-115			
Beryllium	0.0532	0.0005	mg/L	0.0500		106	85-115			
Cadmium	0.0513	0.0001	mg/L	0.0500		103	85-115			
Chromium	0.0533	0.0010	mg/L	0.0500		107	85-115			
Cobalt	0.0523	0.0001	mg/L	0.0500		105	85-115			
Copper	0.0522	0.0001	mg/L	0.0500		104	85-115			
Lead	0.0489	0.0005	mg/L	0.0500		97.8	85-115			
Molybdenum	0.0524	0.0005	mg/L	0.0500		105	85-115			
Nickel	0.0499	0.0005	mg/L	0.0500		99.9	85-115			
Selenium	0.256	0.0010	mg/L	0.250		102	85-115			
Silver	0.0473	0.0001	mg/L	0.0500		94.5	85-115			
Thallium	0.0454	0.0001	mg/L	0.0500		90.8	85-115			
Zinc	0.0546	0.0010	mg/L	0.0500		109	75-125			

DRAFT REPORT

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Southern Ute Tribe Environmental PO Box 737

Ignacio CO, 81137

Project: 8/8/15
Project Name / Number: [none]
Project Manager: Curtis Hartenstein

Reported: 08/11/15 16:21

Total Recoverable Metals by ICPMS (E200.8) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B508090 - EPA 200.2M										
LCS Dup (B508090-BSD1)				Prepared &	Analyzed:	08/11/15				
Antimony	0.0575	0.0005	mg/L	0.0500		115	85-115	0.0865	20	
Arsenic	0.0523	0.0005	mg/L	0.0500		105	85-115	2.42	20	
Barium	0.0486	0.0005	mg/L	0.0500		97.2	85-115	1.65	20	
Beryllium	0.0518	0.0005	mg/L	0.0500		104	85-115	2.75	20	
Cadmium	0.0494	0.0001	mg/L	0.0500		98.9	85-115	3.74	20	
Chromium	0.0525	0.0010	mg/L	0.0500		105	85-115	1.36	20	
Cobalt	0.0510	0.0001	mg/L	0.0500		102	85-115	2.60	20	
Copper	0.0489	0.0001	mg/L	0.0500		97.8	85-115	6.63	20	
Lead	0.0486	0.0005	mg/L	0.0500		97.2	85-115	0.592	20	
Molybdenum	0.0524	0.0005	mg/L	0.0500		105	85-115	0.0928	20	
Nickel	0.0501	0.0005	mg/L	0.0500		100	85-115	0.361	20	
Selenium	0.253	0.0010	mg/L	0.250		101	85-115	1.13	20	
Silver	0.0481	0.0001	mg/L	0.0500		96.2	85-115	1.72	20	
Thallium	0.0456	0.0001	mg/L	0.0500		91.2	85-115	0.407	20	
Zinc	0.0527	0.0010	mg/L	0.0500		105	75-125	3.46	20	

DRAFT REPORT

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Southern Ute Tribe Environmental PO Box 737

Ignacio CO, 81137

Project Name / Number: [none]
Project Manager: Curtis Hartenstein

Reported: 08/11/15 16:21

Dissolved Metals by ICPMS - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch B508081 - Dissolved Metals, E200.7/E200.8

Blank (B508081-BLK1)				Prepared & Analy	yzed: 08/10/15		
Antimony	0.0008	0.0005	mg/L				В
Arsenic	ND	0.0005	mg/L				
Barium	ND	0.0005	mg/L				
Beryllium	ND	0.0005	mg/L				
Cadmium	ND	0.0001	mg/L				
Chromium	ND	0.0010	mg/L				
Cobalt	ND	0.0001	mg/L				
Copper	ND	0.0001	mg/L				
Lead	ND	0.0005	mg/L				
Molybdenum	ND	0.0005	mg/L				
Nickel	ND	0.0005	mg/L				
Selenium	ND	0.0010	mg/L				
Silver	ND	0.0001	mg/L				
Thallium	ND	0.0001	mg/L				
Vanadium	ND	0.0005	mg/L				
Zinc	ND	0.0010	mg/L				
LCS (B508081-BS1)				Prepared & Analy	zed: 08/10/15		
Antimony	0.0478	0.0005	mg/L	0.0500	95.6	85-115	
Arsenic	0.0508	0.0005	mg/L	0.0500	102	85-115	
Barium	0.0484	0.0005	mg/L	0.0500	96.7	85-115	
Beryllium	0.0500	0.0005	mg/L	0.0500	100	85-115	
Cadmium	0.0490	0.0001	mg/L	0.0500	98.1	85-115	
Chromium	0.0497	0.0010	mg/L	0.0500	99.4	85-115	
Cobalt	0.0480	0.0001	mg/L	0.0500	95.9	85-115	
Copper	0.0501	0.0001	mg/L	0.0500	100	85-115	
Lead	0.0473	0.0005	mg/L	0.0500	94.7	85-115	
Molybdenum	0.0489	0.0005	mg/L	0.0500	97.7	85-115	
Nickel	0.0483	0.0005	mg/L	0.0500	96.7	85-115	
Selenium	0.251	0.0010	mg/L	0.250	100	85-115	
Silver	0.0476	0.0001	mg/L	0.0500	95.2	85-115	
Thallium	0.0460	0.0001	mg/L	0.0500	92.0	85-115	
Vanadium	0.0479	0.0005	mg/L	0.0500	95.8	85-115	
Zinc	0.0478	0.0010	mg/L	0.0500	95.7	85-115	

DRAFT REPORT

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Southern Ute Tribe Environmental PO Box 737

Ignacio CO, 81137

Project: 8/8/15
Project Name / Number: [none]
Project Manager: Curtis Hartenstein

Reported: 08/11/15 16:21

Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B508081 - Dissolved Metals, F	E200.7/E200.8									
LCS Dup (B508081-BSD1)				Prepared &	Analyzed:	08/10/15				
Antimony	0.0505	0.0005	mg/L	0.0500		101	85-115	5.45	20	
Arsenic	0.0518	0.0005	mg/L	0.0500		104	85-115	1.93	20	
Barium	0.0501	0.0005	mg/L	0.0500		100	85-115	3.61	20	
Beryllium	0.0506	0.0005	mg/L	0.0500		101	85-115	1.16	20	
Cadmium	0.0504	0.0001	mg/L	0.0500		101	85-115	2.73	20	
Chromium	0.0504	0.0010	mg/L	0.0500		101	85-115	1.49	20	
Cobalt	0.0475	0.0001	mg/L	0.0500		95.1	85-115	0.857	20	
Copper	0.0509	0.0001	mg/L	0.0500		102	85-115	1.65	20	
Lead	0.0489	0.0005	mg/L	0.0500		97.8	85-115	3.30	20	
Molybdenum	0.0500	0.0005	mg/L	0.0500		99.9	85-115	2.23	20	
Nickel	0.0494	0.0005	mg/L	0.0500		98.8	85-115	2.15	20	
Selenium	0.256	0.0010	mg/L	0.250		102	85-115	2.01	20	
Silver	0.0439	0.0001	mg/L	0.0500		87.8	85-115	8.18	20	
Thallium	0.0470	0.0001	mg/L	0.0500		94.1	85-115	2.25	20	
Vanadium	0.0473	0.0005	mg/L	0.0500		94.6	85-115	1.24	20	
Zinc	0.0492	0.0010	mg/L	0.0500		98.3	85-115	2.73	20	

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Southern Ute Tribe Environmental PO Box 737

Ignacio CO, 81137

Project: 8/8/15
Project Name / Number: [none]
Project Manager: Curtis Hartenstein

Reported: 08/11/15 16:21

Total Mercury by CVAA- Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B508083 - EPA 245.1/7470										
Blank (B508083-BLK1)				Prepared &	: Analyzed:	08/10/15				
Mercury	ND	0.0002	mg/L							
LCS (B508083-BS1)				Prepared &	: Analyzed:	08/10/15				
Mercury	0.0021	0.0002	mg/L	0.00200		106	85-115			
LCS Dup (B508083-BSD1)				Prepared &	: Analyzed:	08/10/15				
Mercury	0.0023	0.0002	mg/L	0.00200		115	85-115	7.77	20	

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 Southern Ute Tribe Environmental
 Project: 8/8/15

 PO Box 737
 Project Name / Number: [none]
 Reported:

 Ignacio CO, 81137
 Project Manager: Curtis Hartenstein
 08/11/15 16:21

Notes and Definitions

B3 Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.

B1 Target analyte detected in method blank at or above method reporting limit. Sample concentration found to be 10 times above the

concentration found in the method blank or less than the reporting limit.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

*Results reported on as received basis unless designated as dry.

RPD Relative Percent Difference

LCS Laboratory Control Sample (Blank Spike)

RL Report Limit

MDL Method Detection Limit

DRAFT REPORT

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(970) 247-4220

service@greenanalytical.com or dzufelt@greenanalytical.com

Fax: (970) 24	7-4227	75 Suttle St	Durango, 0	CO 81303

Company Name(optional): S.u.I.T.					Bill to (if different): ANALYSIS REQUEST																		
Company Name(optional): S.u.I.T. Project Contact Person: Curtis Hartenshing					P.0	.#:																	
Address: 71 Mike Frostway City: Ignacio State: 00 Zip: 81137 Phone #: 970-563-0135				Cor	Company:							- 1											
City: Ignacio State: 00 zip: 81137					Attn:																		
Phone #: 970 - 563 - 0135					Address:																		
Email: Charten@Southerwote-NSN.gov					City:							1											
Project Name(optional):					State: Zip:									٠.									
Project Number(optional):					Phone #:							1											
Sampler Name (Print): Hatensly					Fax or Email:																		
		Collected			Matrix (check one) # of containers						-				, 1								
For Lab Use	Sample Name or	Location	Date	Time	GROUNDWATER	SURFACEWATER	PRODUCEDWATER	SOIL	OTHER	No preservation (general)	HCI	H ₂ SO ₄ Other:	Other:	Other:	Attache								
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by GAL within 30 days after comp	d client's exclusive remedy for any claim arising letion. In no event shall GAL be liable for incide	ntal or consequental damage																					
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Sampler - UPS - Fed	Ex - Kangaroo - Other:			9.00	i On	30	٥		λ	W			. •	9	•		*		* "				

From: Hartenstine, Curtis [mailto:charten@southernute-nsn.gov]

Sent: Saturday, August 08, 2015 8:56 AM **To:** <u>jacob.miller@greenanalytical.com</u>

Subject: Ute WQ Request

Hi Jacob, Thanks for helping us out. This is what we are looking at. It is the same analyte list as EPA. Lert me know if you can perform all or some of this. I can come by today before closing to get bottle sets.

Thanks, Curtis

PARAMETER	Fraction	UNITS	METHOD	MDL	PQL	
		Surface W	ater			
Aluminum	Trec, D	mg/l	M200.7 ICP	0.03	0.2	
Calcium	Trec, D	mg/l	M200.7 ICP	0.2	1	
Iron	Trec, D	mg/l	M200.7 ICP	0.02	0.05	
Magnesium	Trec, D	mg/l	M200.7 ICP	0.2	1	
Potassium	Trec, D	mg/l	M200.7 ICP			
Sodium	Trec, D	mg/l	M200.7 ICP			
						> ICP-MS
Silver	Trec, D	mg/l	M200.7 ICP → ?	0.01	0.03	101.000
Arsenic	Trec, D	mg/l	M200.8 ICP-MS	0.0005	0.002	
Cadmium	Trec, D	mg/l	M200.8 ICP-MS	0.0001	0.0005	1
Copper	Trec, D	mg/l	M200.8 ICP-MS	0.01	0.05	
Selenium ?	Tand D	mg/l	M200.8 ICP-MS	0.0001	0.0003	
Zinc	Trec, D	mg/l	M200.8 ICP-MS	0.01	0.05	
Barium	Trec, D	mg/l	M200.8 ICP-MS			
Beryllium	Trec, D	mg/l	M200.8 ICP-MS			
Cobalt	Trec, D	mg/l	M200.8 ICP-MS			
Chromium	Trec, D	mg/l	M200.8 ICP-MS			
Manganese	Trec, D	mg/l	M200.8 ICP-MS			
Molybdenum	Trec, D	mg/l	M200.8 ICP-MS			
Nickel	Trec, D	mg/l	M200.8 ICP-MS			
Lead	Trec, D	mg/l	M200.8 ICP-MS			
Antimony	Trec, D	mg/l	M200.8 ICP-MS			
Selenium	Trec, D	mg/l	M200.8 ICP-MS			
Thallium	Trec, D	mg/l	M200.8 ICP-MS			
Vanadium	Trec, D	mg/l	M200.8 ICP-MS			
/ Bicarbonate as CaC03		mg/l	SM2320B-Titration	2	20	
Carbonate as CaC03		mg/l	SM2320B-Titration	2	20	
Hardness as CaC03		mg/l	SM2320B-Calculation	1	7.	
Residue, Non-Filterable (TSS) @ 150°C		mg/l	SM2540D	5	20	

10 sets